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APPLICATION NO.	FILING DATE	FIRST NAMED-INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,146	12/15/2003	John E. Sims	2872-USC	6669
759	90 03/13/2006		EXAM	INER
Janis C. Henry		OIPE	LOCKARD, JON MCCLELLAND	
Immunex Corporation Law Department		/ · · · · · · · · · · · · · · · · · · ·	ART UNIT	PAPER NUMBER
51 University Street		(MAR 2.0 2006 E)	1647	
Seattle, WA 98101		THE PROPERTY OF THE PARTY OF TH	DATE MAILED: 03/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/737,146	SIMS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jon M. Lockard	1647				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 15 L	1) Responsive to communication(s) filed on 15 December 2003.					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 18-34 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>18-34</u> are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the pri		ed in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 18-25 and 31-33, drawn to polynucleotides, vectors and host cells comprising the same, and a method of recombinantly producing the protein encoded thereby, classified in class 435, subclass 69.1, for example.
 - II. Claims 26-30, drawn to polypeptides, classified in class 530, subclass 350.
 - III. Claim 34, drawn to antibodies, classified in class 530, subclass 387.9, for example.
- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Inventions I, II, and III are independent and distinct, each from each other, because they are products which possess characteristic differences in structure and function and each has an independent utility that is distinct for each invention which cannot be exchanged.
- 4. The polynucleotide of Group I and the polypeptide of Group II the are patentably distinct for the following reasons: polypeptides, which are composed of amino acids, and polynucleotides, which are composed of purine and pyrimidine units, are structurally distinct molecules; any relationship between a polypeptide and polynucleotide is dependent upon the information provided by the nucleic acid sequence open reading frame as it corresponds to the primary amino acid sequence of the encoded polypeptide. Furthermore, searching the inventions of Groups I and II together would impose a serious search burden. In the instant case, the search

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of the polypeptides and the polynucleotides is not coextensive. The inventions of Groups I and II have a separate status in the art as shown by their different classifications. In cases such as this one where descriptive sequence information is provided, the sequences are searched in appropriate databases. There is also search burden in the non-patent literature. Prior to the concomitant isolation and expression of the sequence of interest there may be journal articles devoted solely to polypeptides which would not have described the polynucleotide. Similarly, there may have been "classical" genetics papers which had no knowledge of the polypeptide, but spoke to the gene. Searching, therefore, is not coextensive. Furthermore, a search of the nucleic acid molecules of Group I would require an oligonucleotide search, which is not likely to result in relevant art with respect to the polypeptide of Group II. As such, it would be burdensome to search the inventions of Groups I and II.

5. The polypeptide of Group II and the antibody of Group III are patentably distinct for the following reasons: while the inventions of both Groups II and III are polypeptides, in this instance, the polypeptide of Group II is a single chain molecule, whereas the polypeptide of Group III encompasses antibodies including IgG which comprises 2 heavy and 2 light chains containing constant and variable regions, including framework regions which act as a scaffold for the 6 complementary determining regions (CDRs) that function to bind an epitope. Thus, the polypeptide of Group II and the antibody of Group III are structurally distinct molecules; any relationship between a polypeptide of Group II and an antibody of Group III is dependent upon the correlation between the scope of the polypeptides that the antibody binds and the scope of the antibodies that would be generated upon immunization with a polypeptide.

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- 6. In this case, the polypeptide of Group II is a large molecule which contains potentially hundreds of regions to which an antibody must bind, whereas the antibody of Group III is defined in terms of its binding specificity to a small structure within the disclosed SEQ ID NO. Thus, immunization with the polypeptide of Group II would result in the production of antibodies outside the scope of Group III. Therefore, the polypeptide and antibody are patentably distinct.
- Furthermore, searching the inventions of Group II and Group III would impose a serious search burden. The inventions have a separate status in the art as shown by their different classifications. A polypeptide and antibody which to the polypeptide require different searches. An amino acid search of the full-length protein is necessary for a determination of novelty and unobviousness of the protein. However, such a search is not required to identify the antibodies of Group III. Furthermore, antibodies which bind to an epitope of a polypeptide of Group II may be known even if a polypeptide of Group II is novel. In addition, the technical literature search for the polypeptide of Group II and the antibody of Group III is not coextensive, e.g. antibodies may be characterized in the technical literature prior to discovery of, or sequencing of, their binding target.
- 8. The polynucleotide of Group I and the antibody of Group III are patentably distinct for the following reasons: the antibody of Group III includes, for example, IgG which comprises 2 heavy and 2 light chains containing constant and variable regions, including framework regions which act as a scaffold for the 6 complementary determining regions (CDRs). Polypeptides, such as the antibody of Group III which are composed of amino acids, and polynucleotides, which are

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composed of nucleic acids, are structurally distinct molecules. Any relationship between a

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polynucleotide and polypeptide is dependent upon the information provided by the nucleic acid

sequence open reading frame as it corresponds to the primary amino acid sequence of the

encoded polypeptide. In the present claims, a polynucleotide of Group I will not encode an

antibody of Group III, and an antibody of Group III cannot be encoded by a polynucleotide of

Group I. Therefore, the antibody and polynucleotide are patentably distinct.

9. The antibody and polynucleotide inventions have a separate status in the art as shown by

their different classifications. Furthermore, searching the inventions of Groups I and III would

impose a serious search burden since a search of the polynucleotide of Group I would not be

used to determine the patentability of an antibody of Group III and vice-versa.

10. Because these inventions are distinct for the reasons given above, have acquired a

separate status in the art as shown by their different classification, and the search required for

each group is not required for the other groups, restriction for examination purposes as indicated

is proper.

11. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

12. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jon M. Lockard**, **Ph.D.** whose telephone number is (571) 272-2717. The examiner can normally be reached on Monday through Friday, 8:00 AM to 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Brenda Brumback**, can be reached on (571) 272-0961.

The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jon M. Lockard, Ph.D. March 7, 2006

BRIDGET BUNNER PATENT EXAMINER

Bridget E. Bunner

C1600

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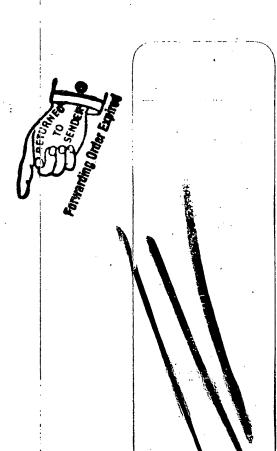
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